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- (72) Inventors: LAPIDUS, Stanley, N.; 12 Old Evergreen Road, Bedford, NH 03110 (US). SHUBER, Anthony, P.; 11 Grant Street, Milford, MA 01757 (US). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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WO 00/58514 A3

(54) Title: METHODS FOR IMPROVING SENSITIVITY AND SPECIFICITY OF SCREENING ASSAYS

(57) Abstract: Methods of the invention comprise assays for markers indicative of cancer or precancer. Assays of the invention are performed on samples obtained from a patient by non-invasive or minimally-invasive methods. The invention provides nucleic acid indicia of cancer or precancer with high sensitivities and high specificities for detection.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/07882

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, MEDLINE, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SIDRANSKY DAVID: "Nucleic acid-based methods for the detection of cancer." SCIENCE (WASHINGTON D C), vol. 278, no. 5340, 7 November 1997 (1997-11-07), pages 1054-1058, XP002170462 ISSN: 0036-8075	1-8, 15-17, 20-24, 29-33
Y	page 1054 -page 1057; table 1	9-14
Y	WO 95 00669 A (PHARMACIA BIOTECH AB ;BAYLOR COLLEGE MEDICINE (US); CASKEY C THOMA) 5 January 1995 (1995-01-05) page 14, line 1 - line 28; claims 1-18	9-14
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- \*A\* document member of the same patent family

Date of the actual completion of the international search

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VET JACQUELINE A M ET AL: "Comparative analysis of p53 mutations in bladder washings and histologic specimens." AMERICAN JOURNAL OF CLINICAL PATHOLOGY, vol. 110, no. 5, November 1998 (1998-11), pages 647-652, XP001009905 ISSN: 0002-9173 page 650, right-hand column -page 652, left-hand column ---	1,6,8, 16,17, 22-25,32
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Information on patent family members

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